

148
"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

E7.3 10627

CR-132038

ESTUARINE AND COASTAL WATER DYNAMICS CONTROLLING SEDIMENT
MOVEMENT AND PLUME DEVELOPMENT IN LONG ISLAND SOUND

Frederick H. Ruggles, Jr.
U.S. Geological Survey
Box 715, Hartford, CT 06101

1 May 1973

Type 1 Progress Report for Period 1 March 1973 to 30 April
1973

Prepared for:

Goddard Space Flight Center
Greenbelt, Maryland 20771

E73-10627) ESTUARINE AND COASTAL WATER
DYNAMICS CONTROLLING SEDIMENT MOVEMENT AND
PLUME DEVELOPMENT IN LONG ISLAND SOUND
Progress Report, 1 (Geological Survey,
Hartford, Conn.) 2 p HC \$3.00 CSCL 08H

N73-24387

Unclas
G3/13 00627

Publication authorized by the Director, U.S. Geological Survey

- a. Title: Estuarine and Coastal Water Dynamics Controlling Sediment Movement and Plume Development in Long Island Sound

ERTS-A Proposal No.: SR 342 E

- b. GSFC ID No. of P.1.: IN 395

- c. The investigation is progressing on schedule.

- d. During the period, tide gage data in Long Island Sound and the Connecticut Estuary were collected and computer processed for use in plume analysis. Tidal interchange was computed for the Connecticut Estuary for the period through March 30, 1973. Freshwater inflow to Long Island Sound was continually monitored at 23 gaging stations in Connecticut and New York.

Data for the spring freshet period (March through May) are being reviewed and will be subjected to analysis on the SRI Electronic Satellite Image Analysis Console. Compilation of ground truth data for this period is in progress.

- e. Nothing to report

5F

- f. Ruggles, Jr., F.H., 1973, Plume development in Long Island Sound observed by remote sensing (ERTS-1): Symposium on Significant Results Obtained from ERTS-1; NASA/Goddard Space Flight Center, Greenbelt, Md.

- g. None

- h. None

- i. None

- j. None

- k. Not applicable